

FIG. 1

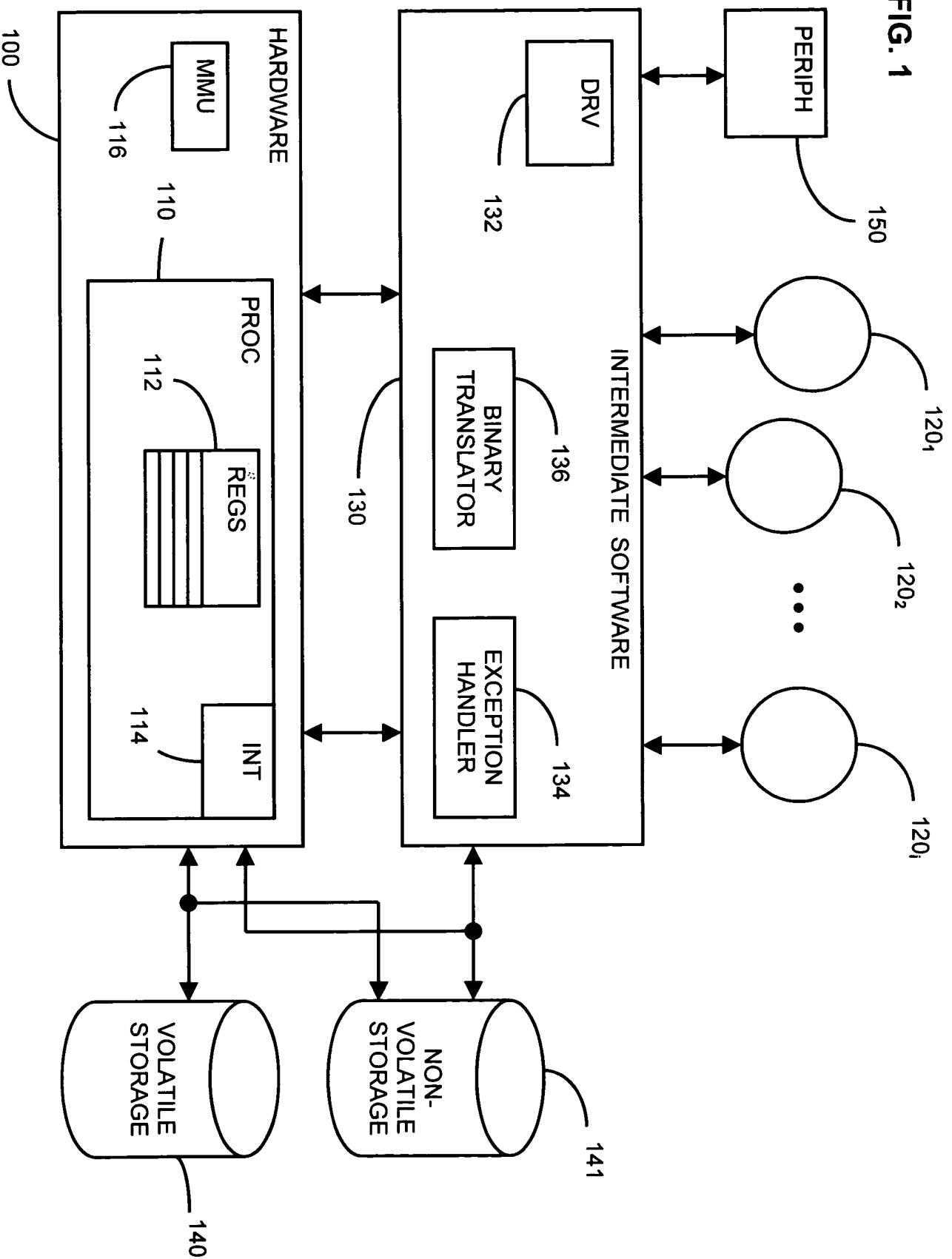


FIG. 2

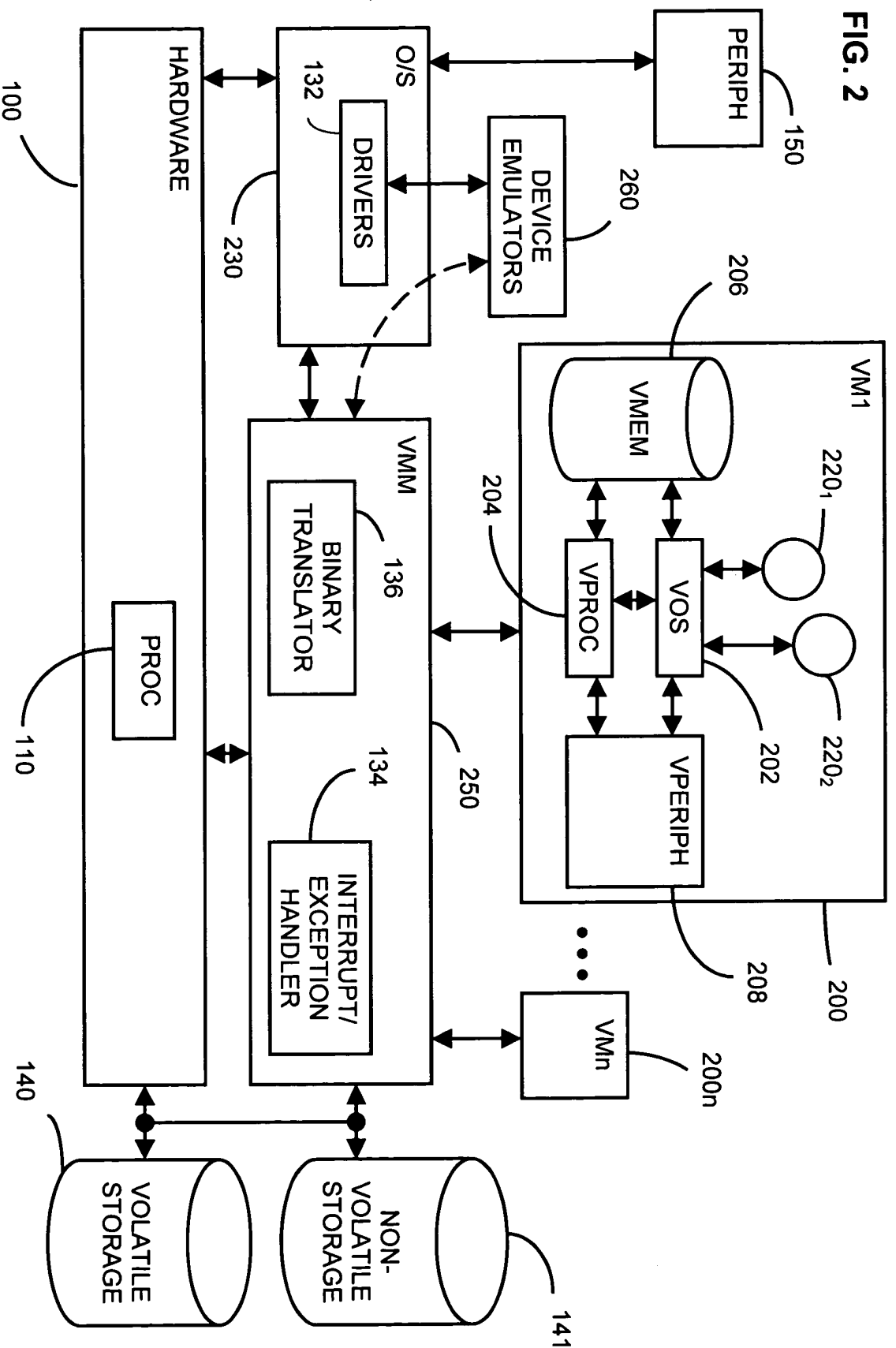


FIG. 3 is a block diagram illustrating a Virtual Machine Monitor (VMM) 250. The VMM 250 is connected to a Virtual Machine (VM) 200, which contains a Virtual Operating System (VOS) 202. The VMM 250 includes several components and data flows:

- RESUME (342)**: Receives input from the VMM 250 and sends data to the **TRANSLATOR (136)** and the **TRANSLATION CACHE (340)**.
- TC HASH (348)**: Receives input from the VMM 250 and sends data to the **TRANSLATION CACHE (340)**.
- TRANSLATOR (136)**: Receives input from the RESUME (342) and sends data to the **TRANSLATION CACHE (340)** and the **TC COHERENCY (350)**.
- TRANSLATION CACHE (340)**: Receives input from the RESUME (342) and the TC HASH (348), and sends data to the **TC COHERENCY (350)** and the **DIRECT EXECUTION (302)**.
- TC COHERENCY (350)**: Receives input from the TRANSLATOR (136) and the TRANSLATION CACHE (340), and sends data to the **DIRECT EXECUTION (302)**.
- DIRECT EXECUTION (302)**: Receives input from the TRANSLATION CACHE (340) and the TC COHERENCY (350), and sends data to the **DECISION (304)**.
- DECISION (304)**: Receives input from the DIRECT EXECUTION (302) and sends data to the **RESUME (342)**.
- TC SYNCH MAP (346)**: Receives input from the TRANSLATOR (136) and sends data to the **SYNCH (344)**.
- SYNCH (344)**: Receives input from the TC SYNCH MAP (346) and sends data to the **RESUME (342)**.
- TRACES (300)**: Receives input from the TC COHERENCY (350) and sends data to the **RESUME (342)**.

FIG. 4

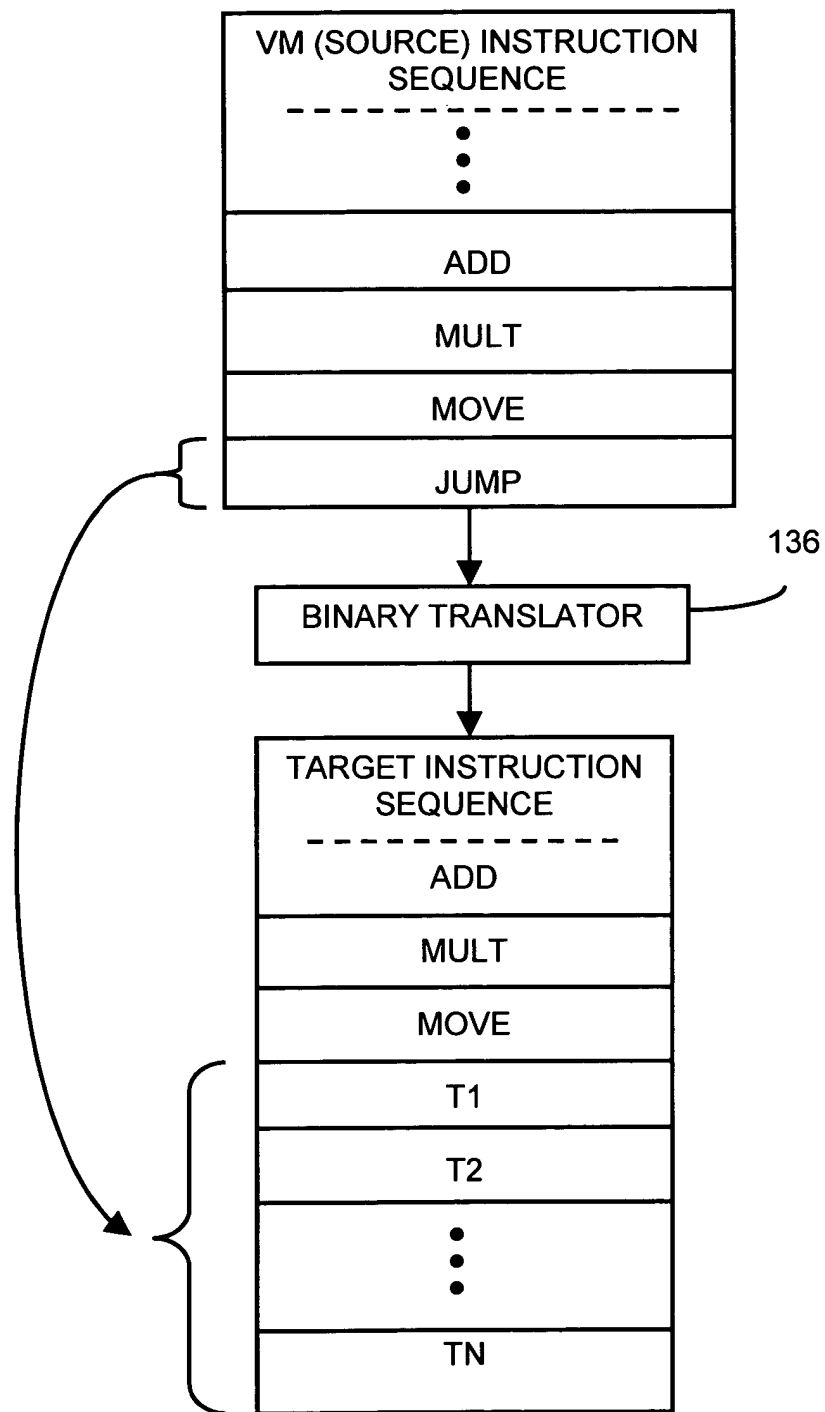


FIG. 5

